

## ABSTRACT

The present invention relates generally to polypeptides that mimic or inhibit the biological activity of thrombospondin, and particularly to polypeptides in retroinverso form. The peptides. These polypeptides may be used biological and pharmaceutical applications such as: (a) inhibiting the invasive and metastatic activity of melanoma cells, (b) promoting and inhibiting cellular attachment to tissue culture flasks, (c) promoting wound healing, angiogenesis, and implant acceptance, (d) agents for anti-platelet aggregation, (e) agents for antimalarial activity, and (f) diagnostic reagents in different therapeutic applications, as well as other related areas.